



APPROPRIATIONS SUBCOMMITTEE 2018

Protecting Utah's People and Economy



Our Vision



Clean land, air, and water for a healthy and prosperous Utah

Photo credit: Dawid Sobolewski

Success Stories

Air Quality

- ULeak leak detection program in the Uinta Basin
- Utah Winter Fine Particulate Study (UWFPS)
- Employer Based Trip Reduction (EBTR) webinars and Clean Car Clinic

Water Quality

- Harmful algal bloom response
- Water-quality improvement projects

Drinking Water

- Lead in Schools initiative
- Financial assistance for construction projects

Environmental Response and Remediation

- Sunset Ridge Voluntary Cleanup site
- Ogden Business Exchange Voluntary Cleanup site
- Crossing at 2100 South Voluntary Cleanup site

Waste Management and Radiation Control

- E-Waste cleanup
- Tooele Army Depot-South cleanup



Challenges

- Rapid growth
- Increased federal environmental regulations
 - Serious PM_{2.5} State Implementation Plans
 - Ozone State Implementation Plans
- Public expectations for more information and participation
- Technical complexity of environmental issues
- Limited federal and state resources for programs
- Employee retention and retirement
- Lack of clear standards for certain contaminants and pathogens that pose health and environmental risks

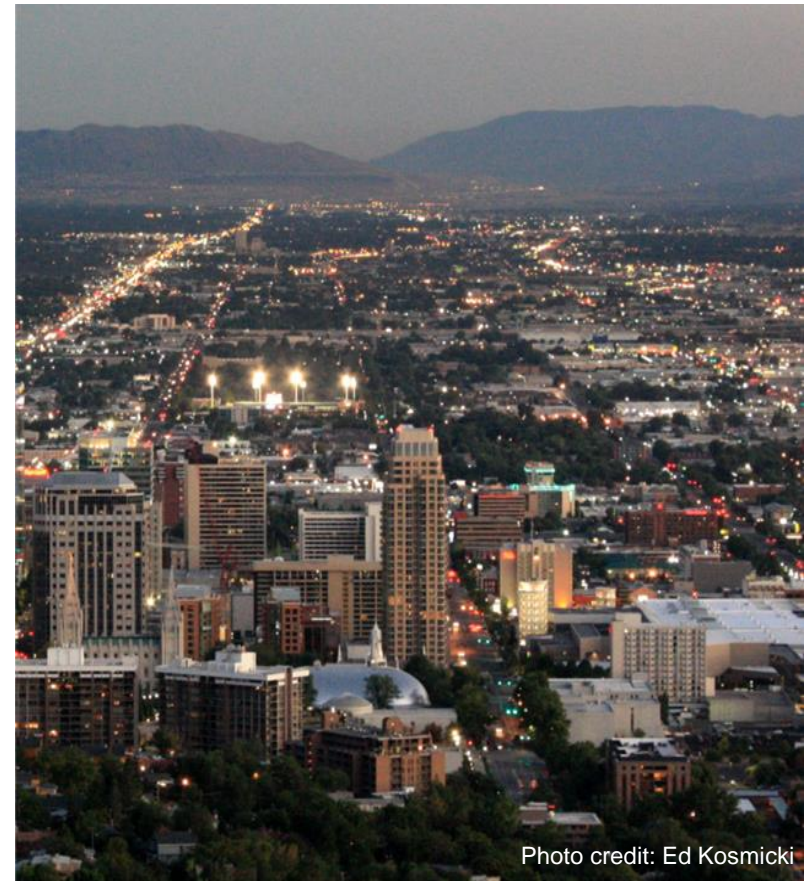


Photo credit: Ed Kosmicki

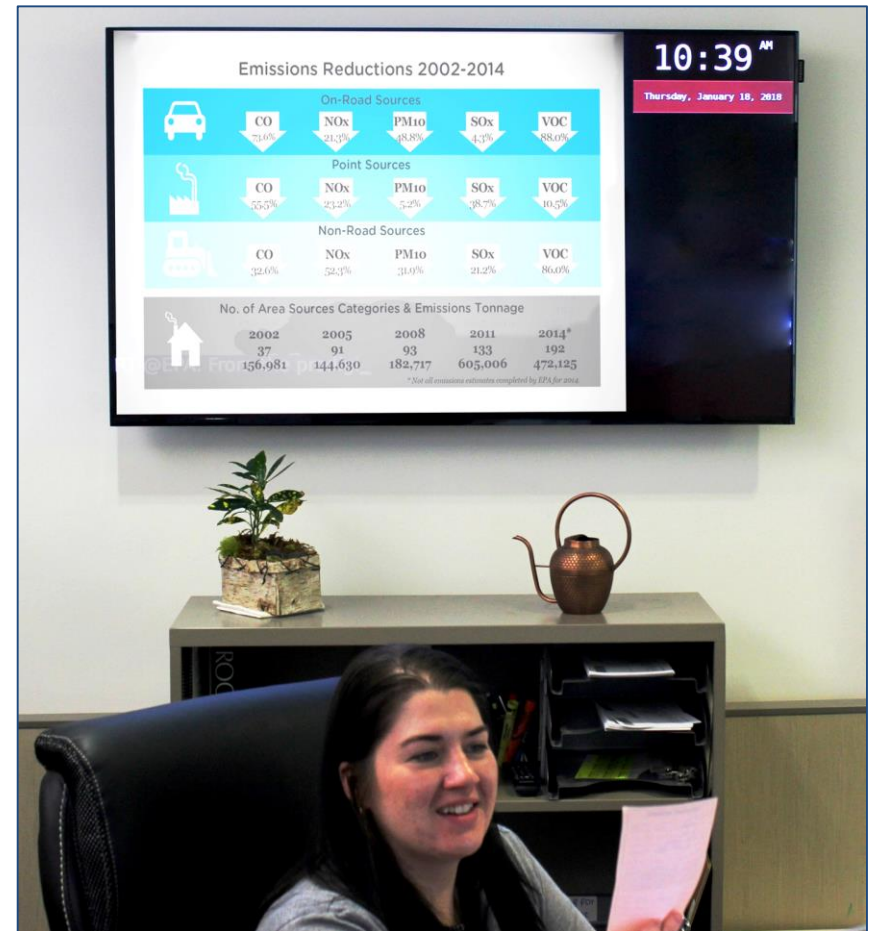
A Look Forward



Photo credit: Annie Spratt

Performance Improvements

- Deputy Director position dedicated to performance improvement
- Performance improvement projects occurring in each DEQ section
- Pilot testing of a new management system
- Implementation of a new cost accounting system by the end of the fiscal year.



Division Performance Improvement Initiatives

Air Quality

Permitting process improvements

Water Quality

Expedited Settlement Offer (ESO) process for noncompliance

Drinking Water

Improvements to the Improvement Priority System Rule (IPS)

Environmental Response and Remediation

Better Underground Storage Tank (UST) compliance

Waste Management and Radiation Control

Streamlined online forms/applications for customers

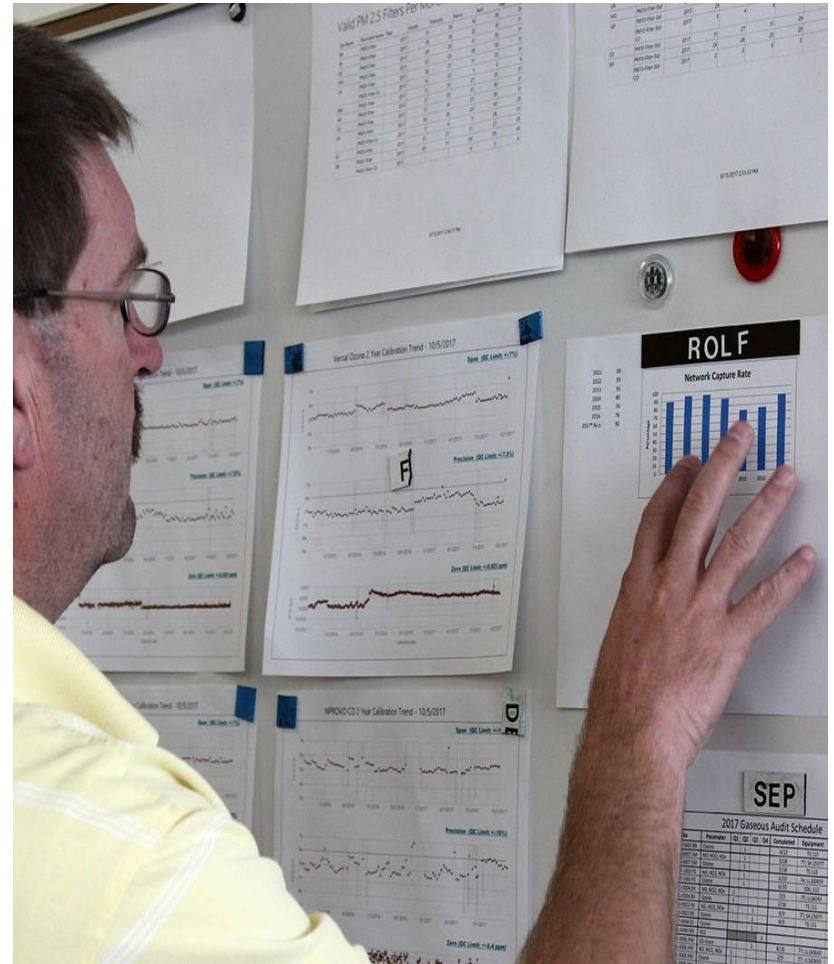




Photo credit: Ned Horton



**DRINKING
WATER**

Torrey Town Runs Dry in 2017



Photo credit: CarlBSr

Drinking Water Emergency Response



Photo Credit: RWAU

Drinking Water Programs Serving Utah

- Emergency response
- Technical assistance
- Operator certification
- Backflow protection
- Drinking water quality monitoring
- Sanitary survey inspections
- Engineering plan review
- Balanced regulation



FY17 Financial Assistance

During FY17, the State Revolving Fund provided:

- **\$18.6 million** to 21 drinking water systems for construction projects
- Financial assistance packages totaling approximately **\$8.3 million** for 9 previously authorized projects
- **\$170,000** to help drinking water systems prepare master plans or engineering studies

Since 1983, approximately **\$338.8 million** in State Revolving Fund assistance has been awarded to 448 drinking water system improvement projects in Utah.



Springdale Booster Pump Station. The Drinking Water Board authorized \$7.4 million to Springdale this year to build a new drinking water treatment plant.

Drinking Water Source Vulnerability



Photo credit: RWAU

Lead in Schools Initiative



Performance Improvements

- Improvements to state's Water System Rating Criteria
- Compliance Monitoring Data Portal
- Engineering assistance
- Reassessment of vulnerabilities to safety of drinking water
- Training and operator certifications
- Online tracking (WaterLink)
- Collaboration with EPA on data transfer





ENVIRONMENTAL RESPONSE
& REMEDIATION

Ogden Business Exchange

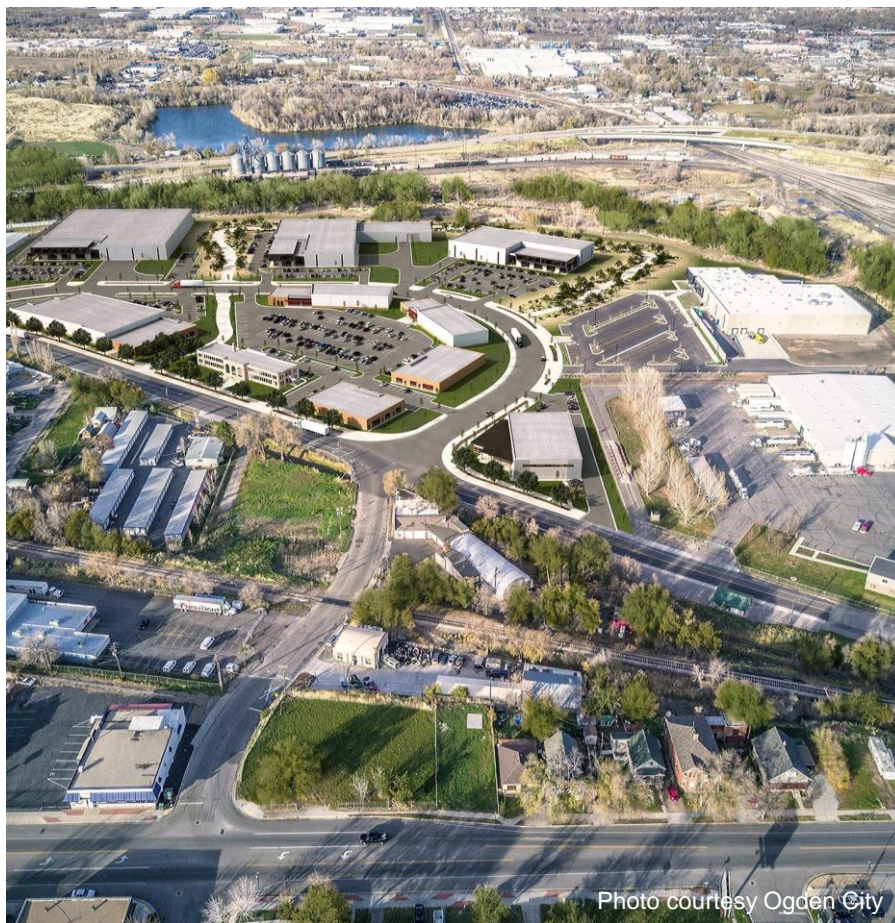


Photo courtesy Ogden City

Crossing at 2100 South



Ronald McDonald House



Centro Civico



Performance Improvements

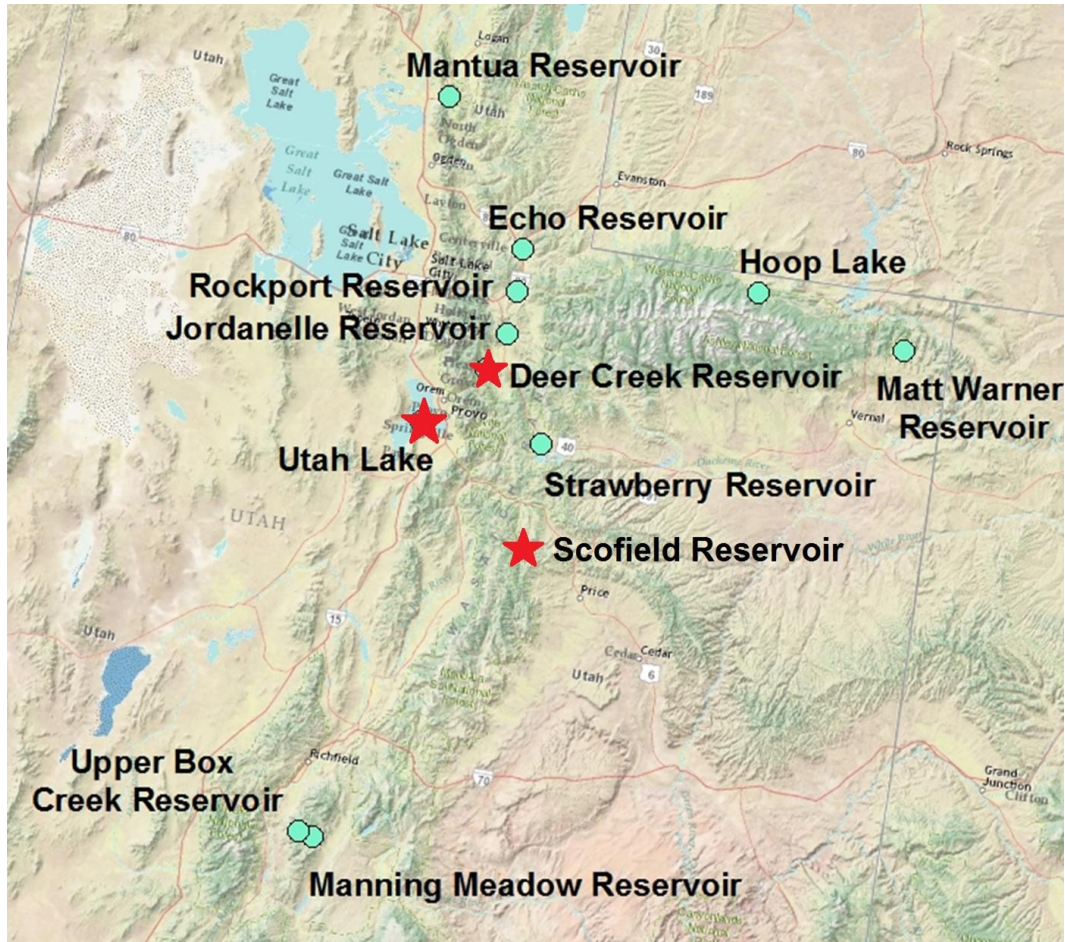
- DEQ Interactive Map
- Document uploads to eDocs
- Underground storage tank (UST) tracking system
- Database-driven reminder system
- UST risk tool
- UST tablet inspection app
- Online tank portal for UST certification and operator training registration
- Petroleum Storage Tank (PST) tracking database
- Tier 2 submission portal





**WATER
QUALITY**

Harmful Algal Bloom Response



Water Quality Funding

South Davis Sewer District

- Loan-funding package of \$28.85 million
- Construction of a new tertiary, algae-based treatment system extension to the SDSD South Plant
- Nonpoint-source funding of \$2.5 million
- Benefits:
 - High quality effluent
 - Reuse-quality water
 - Potential to sell algae product to offset operation costs



North Fork Virgin River

Exceedances of *E. coli* presented a potential threat to thousands of visitors to Zion National Park.

Collaborative effort with multiple stakeholders identified sources of the problem and solutions.

“It has not been an easy process building trust with such a diverse group. When we started collaborating together and focused on solutions, we started seeing success.”

- Jay Olsen, UDAF Environmental Stewardship Coordinator



Performance Improvements

- Integrated Report (IR) process improvements
- Expedited Settlement Offer (ESO)
- Paperless Municipal Wastewater Planning Program (MWPP) surveys
- Online storm water permitting
- Spills incident management
- Comprehensive permitting issuance





AIR
QUALITY

Serious PM_{2.5} State Implementation Plans



Regulatory Flexibility



Photo credit: U.S. Air Force

ULend Program Uinta Basin



Oil and Gas Permit by Rule

Streamlines permitting of minor oil and gas sources

- Reduces permitting costs and eliminates steps
- Reduces permit engineering time
- Ensures consistency of operational requirements

Offers savings and, in many cases, no additional cost to sources

- Exempts well sites from obtaining an air approval order. Cost savings: **\$1,800**
- No additional costs for storage vessel controls or dehydrator, VOC, and engine requirements

Accounts for existing requirements in its cost/benefit analysis

- Includes compliance with federal and state requirements and payment of associated costs
- Includes compliance with Utah state small source exemption sites truck-tank loading and leak detection and repair (LDAR) requirements and payment of associated costs



Performance Improvements

Permitting Branch process improvements

- Completeness of applications
- Editing and review processes
- Permit peer review process

Statewide oil and gas inspections

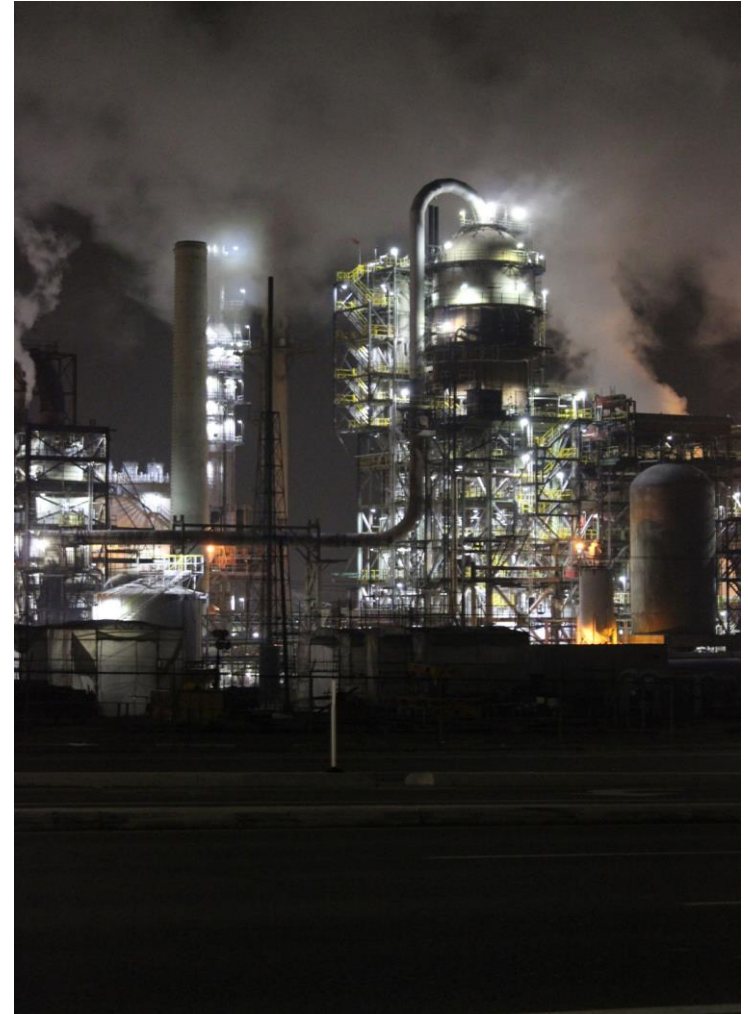
- Facility location mapping to reduce travel time
- Tablets for data input
- Infrared camera to detect leaks

Operating permits

- Process improvements to reduce Title V permit extensions

New Source Review permits

- Pre-meetings to ensure applications are complete
- Guidance documents to assist permittees
- Permit time clock started when completed application received





**WASTE MANAGEMENT
& RADIATION CONTROL**

E-Waste Cleanup



Snyder Property Waste Tire Removal



Tooele Army Depot Munitions Cleanup



Performance Improvements

Waste management permitting

- Revision of used-oil permit application forms on the web to enhance the permitting process
- Conversion of Used Oil Financial Assurance (FA) forms to writable PDF form
- Conversion of Revision of Used Oil Annual Report Forms to a writable PDF

Waste management compliance

- Enhanced compliance tracking to improve compliance rates
- Update of new rule citations on the small-quantity generators (SQG)/ large-quantity generators (LQG) checklists

X-ray inspections

- Newer equipment that cuts data collection time in half
- Streamlined reporting process
- Data collection using tablets



State of the Environment Report



report.utah.gov



Clean Air, Land, and Water for Utah

